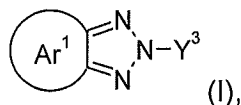


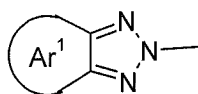
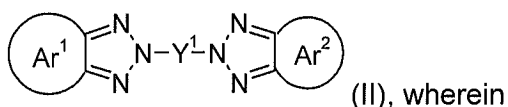
## Claims

1-18. (cancelled)

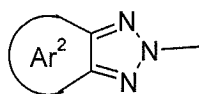
19. (new) An electroluminescent device, comprising a 2H-benzotriazole compound of the formula



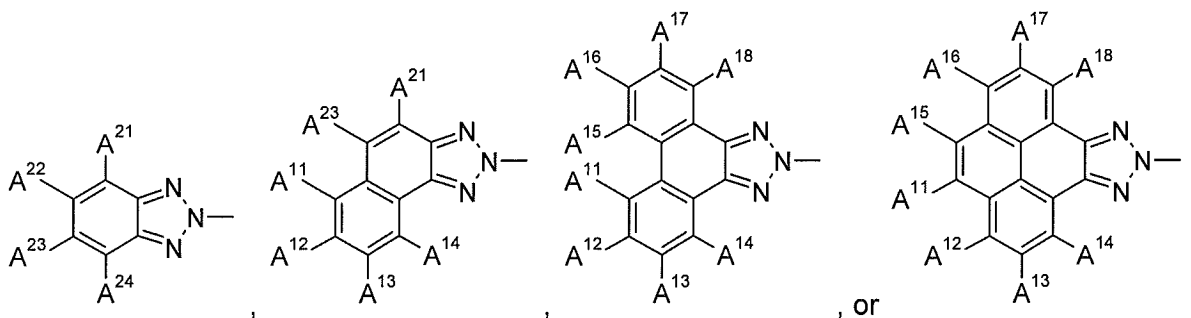
or



and



are independently of each other a group of formula

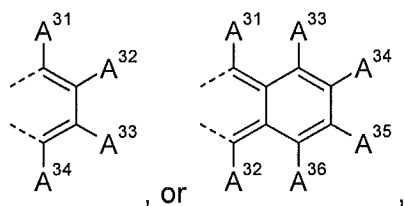


wherein

A<sup>21</sup>, A<sup>22</sup>, A<sup>23</sup>, A<sup>24</sup>, A<sup>11</sup>, A<sup>12</sup>, A<sup>13</sup>, A<sup>14</sup>, A<sup>15</sup>, A<sup>16</sup>, A<sup>17</sup> and A<sup>18</sup> are independently of each other H, halogen, hydroxy, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkyl substituted by E and/or interrupted by D, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl substituted by G and/or interrupted by S-, -O- or -NR<sup>25</sup>-; -NR<sup>25</sup>R<sup>26</sup>, C<sub>1</sub>-C<sub>24</sub>alkylthio, -PR<sup>32</sup>R<sup>32</sup>, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy, C<sub>5</sub>-C<sub>12</sub>cycloalkoxy substituted by G, C<sub>6</sub>-C<sub>24</sub>aryl, C<sub>6</sub>-C<sub>24</sub>aryl substituted by G, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, or C<sub>1</sub>-C<sub>24</sub>haloalkyl; C<sub>2</sub>-C<sub>20</sub>heteroaryl, C<sub>2</sub>-C<sub>20</sub>heteroaryl substituted by G, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, or C<sub>1</sub>-C<sub>24</sub>haloalkyl; C<sub>2</sub>-C<sub>24</sub>alkenyl, C<sub>2</sub>-C<sub>24</sub>alkynyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkoxy substituted by E and/or interrupted by D, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl substituted by G, C<sub>7</sub>-C<sub>25</sub>aralkoxy, C<sub>7</sub>-C<sub>25</sub>aralkoxy substituted by G, or -CO-R<sup>28</sup>,

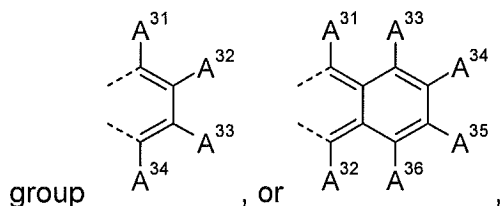
or

A<sup>22</sup> and A<sup>23</sup> or A<sup>11</sup> and A<sup>23</sup> are a group



or

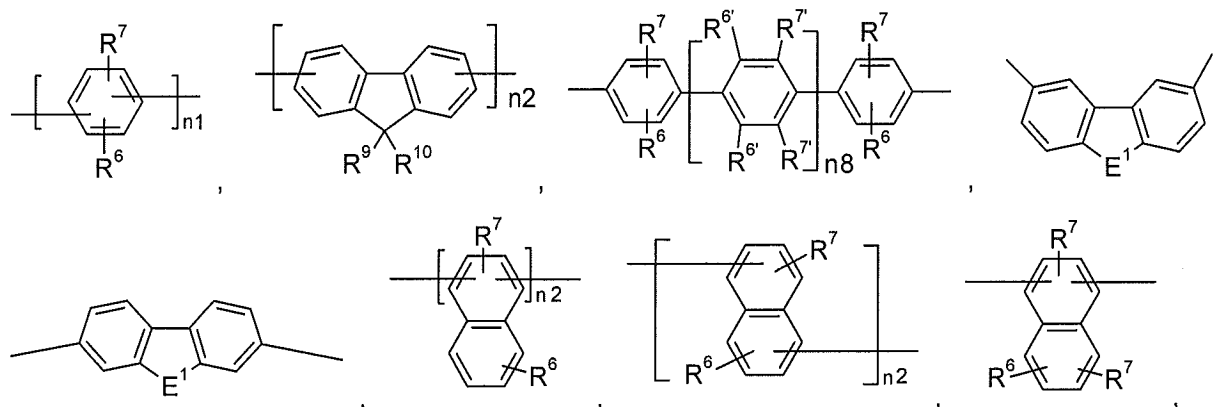
two groups  $A^{11}$ ,  $A^{12}$ ,  $A^{13}$ ,  $A^{14}$ ,  $A^{15}$ ,  $A^{16}$ ,  $A^{17}$  and  $A^{18}$ , which are neighbouring to each other, are a



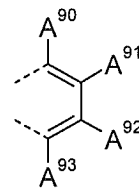
wherein

$A^{31}$ ,  $A^{32}$ ,  $A^{33}$ ,  $A^{34}$ ,  $A^{35}$ ,  $A^{36}$ ,  $A^{90}$ ,  $A^{91}$ ,  $A^{92}$ ,  $A^{93}$ ,  $A^{94}$ ,  $A^{95}$ ,  $A^{96}$  and  $A^{97}$  are independently of each other H, halogen,  $-NR^{25}R^{26}$ , hydroxy,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkyl substituted by E and/or interrupted by D,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_5$ - $C_{12}$ cycloalkyl substituted by G and/or interrupted by S-, -O- or  $-NR^{25}$ -;  $C_5$ - $C_{12}$ cycloalkoxy,  $C_5$ - $C_{12}$ cycloalkoxy substituted by G,  $C_6$ - $C_{24}$ aryl,  $C_6$ - $C_{24}$ aryl substituted by G,  $C_2$ - $C_{20}$ heteroaryl,  $C_2$ - $C_{20}$ heteroaryl substituted by G,  $C_2$ - $C_{24}$ alkenyl,  $C_2$ - $C_{24}$ alkynyl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkoxy substituted by E and/or interrupted by D,  $C_7$ - $C_{25}$ aralkyl,  $C_7$ - $C_{25}$ aralkyl substituted by G,  $C_7$ - $C_{25}$ aralkoxy,  $C_7$ - $C_{25}$ aralkoxy substituted by G, or  $-CO-R^{28}$  :

$Y^1$  is a group of formula







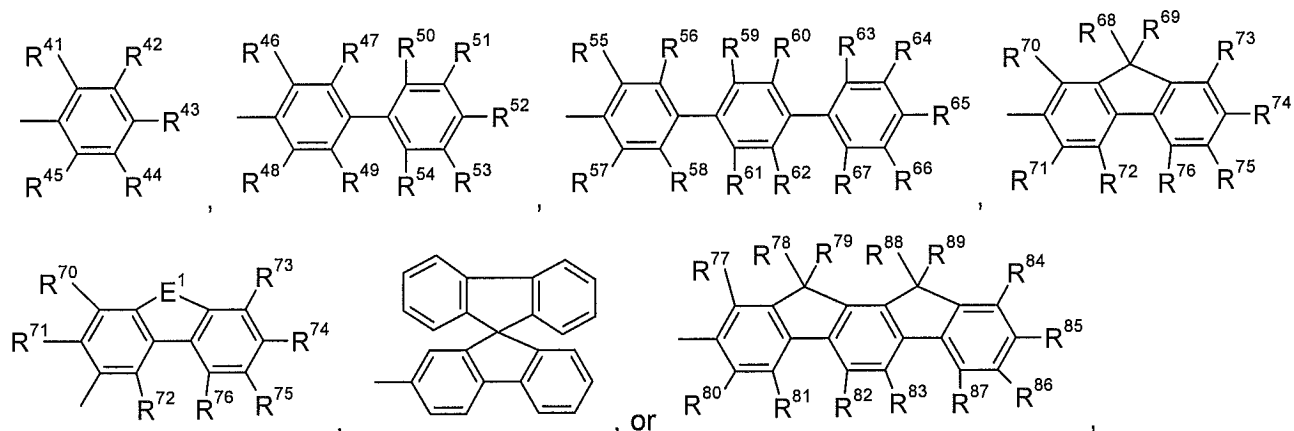
$R^{6'}$  and  $R^{7'}$  have the meaning of  $R^6$ , or together form a group

$R^8$  is  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkyl substituted by E and/or interrupted by D,  $C_6$ - $C_{24}$  aryl, or  $C_7$ - $C_{25}$ aralkyl,

$R^9$  and  $R^{10}$  are independently of each other  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkyl substituted by E and/or interrupted by D,  $C_6$ - $C_{24}$ aryl,  $C_6$ - $C_{24}$ aryl substituted by G,  $C_2$ - $C_{20}$ heteroaryl,  $C_2$ - $C_{20}$ heteroaryl substituted by G,  $C_2$ - $C_{24}$ alkenyl,  $C_2$ - $C_{24}$ alkynyl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkoxy substituted by E and/or interrupted by D, or  $C_7$ - $C_{25}$ aralkyl, or  $R^9$  and  $R^{10}$  form a ring,

$R^{14}$  and  $R^{15}$  are independently of each other H,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkyl substituted by E and/or interrupted by D,  $C_6$ - $C_{24}$ aryl,  $C_6$ - $C_{24}$ aryl substituted by G,  $C_2$ - $C_{20}$ heteroaryl, or  $C_2$ - $C_{20}$ heteroaryl substituted by G:

$Y^3$  is a group of formula



wherein

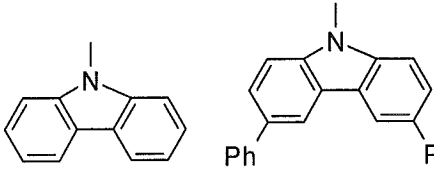
$E^1$  is -S-, -O- or  $-NR^{25'}$ , wherein  $R^{25'}$  is  $C_1$ - $C_{24}$ alkyl or  $C_6$ - $C_{10}$ aryl,

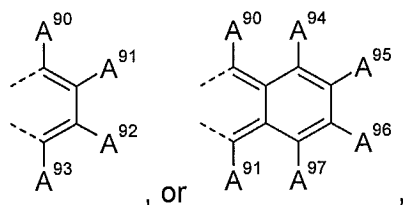
$R^{41}$ ,  $R^{42}$ ,  $R^{43}$ ,  $R^{44}$ ,  $R^{45}$ ,  $R^{46}$ ,  $R^{47}$ ,  $R^{48}$ ,  $R^{49}$ ,  $R^{50}$ ,  $R^{51}$ ,  $R^{52}$ ,  $R^{53}$ ,  $R^{54}$ ,  $R^{55}$ ,  $R^{56}$ ,  $R^{57}$ ,  $R^{58}$ ,  $R^{59}$ ,  $R^{60}$ ,  $R^{61}$ ,  $R^{62}$ ,  $R^{63}$ ,  $R^{64}$ ,  $R^{65}$ ,  $R^{66}$ ,  $R^{67}$ ,  $R^{70}$ ,  $R^{71}$ ,  $R^{72}$ ,  $R^{73}$ ,  $R^{74}$ ,  $R^{75}$ ,  $R^{76}$ ,  $R^{77}$ ,  $R^{80}$ ,  $R^{81}$ ,  $R^{82}$ ,  $R^{83}$ ,  $R^{84}$ ,  $R^{85}$ ,  $R^{86}$ ,

and  $R^{87}$  are independently of each other H, fluorine,  $-NR^{25}R^{26}$ ,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkyl

substituted by E and/or interrupted by D,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl,  $C_1$ - $C_{24}$ alkenyl,  $C_1$ - $C_{24}$ alkenyl substituted by E,  $C_5$ - $C_{12}$ cycloalkyl,  $C_{12}$ cycloalkyl substituted by G,  $C_5$ - $C_{12}$ cycloalkoxy,  $C_5$ - $C_{12}$ cycloalkoxy substituted by G,  $C_6$ - $C_{18}$ aryl,  $C_6$ - $C_{18}$ aryl substituted by G,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkoxy substituted by E and/or interrupted by D,  $C_6$ - $C_{18}$ aryloxy,  $C_6$ - $C_{18}$ aryloxy substituted by G,  $C_7$ - $C_{18}$ arylalkoxy,  $C_7$ - $C_{18}$ arylalkoxy substituted by G,  $C_1$ - $C_{24}$ alkylthio,  $C_1$ -

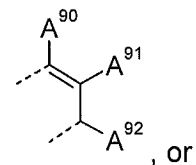
C<sub>24</sub>alkylthio substituted by E and/or interrupted by D, C<sub>2</sub>-C<sub>20</sub>heteroaryl, C<sub>2</sub>-C<sub>20</sub>heteroaryl substituted by G, C<sub>6</sub>-C<sub>18</sub>aralkyl, C<sub>6</sub>-C<sub>18</sub>aralkyl substituted by G, or

R<sup>43</sup>, R<sup>65</sup> or R<sup>52</sup> are a group of formula , or two groups R<sup>41</sup>, R<sup>42</sup>, R<sup>43</sup>, R<sup>44</sup>, R<sup>45</sup>, R<sup>46</sup>, R<sup>47</sup>, R<sup>48</sup>, R<sup>49</sup>, R<sup>50</sup>, R<sup>51</sup>, R<sup>52</sup>, R<sup>53</sup>, R<sup>54</sup>, R<sup>55</sup>, R<sup>56</sup>, R<sup>57</sup>, R<sup>58</sup>, R<sup>59</sup>, R<sup>60</sup>, R<sup>61</sup>, R<sup>62</sup>, R<sup>63</sup>, R<sup>64</sup>, R<sup>65</sup>, R<sup>66</sup>, R<sup>67</sup>, R<sup>70</sup>, R<sup>71</sup>, R<sup>72</sup>, R<sup>73</sup>, R<sup>74</sup>, R<sup>75</sup>, R<sup>76</sup>, R<sup>77</sup>, R<sup>80</sup>, R<sup>81</sup>, R<sup>82</sup>, R<sup>83</sup>, R<sup>84</sup>, R<sup>85</sup>, R<sup>86</sup>, and R<sup>87</sup>, which are neighbouring to each other, are a group

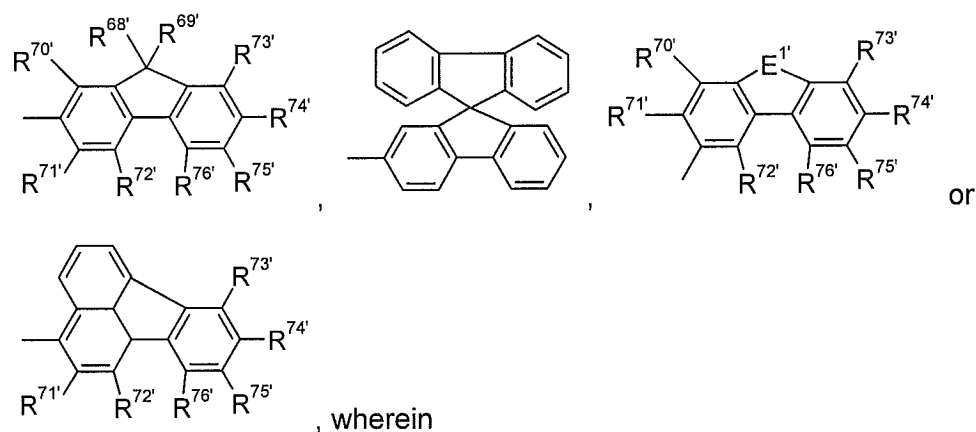


R<sup>68</sup>, R<sup>69</sup>, R<sup>78</sup>, R<sup>79</sup>, R<sup>88</sup> and R<sup>89</sup> are independently of each other C<sub>1</sub>-C<sub>18</sub> alkyl, C<sub>1</sub>-C<sub>24</sub>alkyl substituted by E and/or interrupted by D, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, C<sub>6</sub>-C<sub>24</sub>aryl, C<sub>6</sub>-C<sub>24</sub>aryl substituted by G, C<sub>2</sub>-C<sub>20</sub>heteroaryl, C<sub>2</sub>-C<sub>20</sub>heteroaryl substituted by G, C<sub>2</sub>-C<sub>24</sub>alkenyl, C<sub>2</sub>-C<sub>24</sub>alkynyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkoxy substituted by E and/or interrupted by D, or C<sub>7</sub>-C<sub>25</sub>aralkyl, or

R<sup>68</sup> and R<sup>69</sup>, R<sup>78</sup> and R<sup>79</sup>, and/or R<sup>88</sup> and R<sup>89</sup> form a ring, or



R<sup>68</sup> and R<sup>70</sup>, R<sup>69</sup> and R<sup>73</sup>, R<sup>77</sup> and R<sup>78</sup> and/or R<sup>84</sup> and R<sup>89</sup> are a group R<sup>43</sup>, or R<sup>52</sup> are a group of formula



R<sup>68'</sup> and R<sup>69'</sup> are independently of each other C<sub>1</sub>-C<sub>24</sub>alkyl which can be interrupted by one or two oxygen atoms,

R<sup>70'</sup>, R<sup>71'</sup>, R<sup>72'</sup>, R<sup>73'</sup>, R<sup>74'</sup>, R<sup>75'</sup> and R<sup>76'</sup> are independently of each other H, CN, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>6</sub>-C<sub>10</sub>aryl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkylthio, -NR<sup>25'</sup>R<sup>26'</sup>, -CONR<sup>25'</sup>R<sup>26'</sup>, or -COOR<sup>27'</sup>,

R<sup>25'</sup> and R<sup>26'</sup> are independently of each other H, C<sub>6</sub>-C<sub>18</sub>aryl, C<sub>7</sub>-C<sub>18</sub>aralkyl, or C<sub>1</sub>-C<sub>24</sub>alkyl,

R<sup>27'</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl;

E<sup>1'</sup> is -S-, -O- or -NR<sup>25'</sup>-, wherein R<sup>25'</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>6</sub>-C<sub>10</sub>aryl:

D is -CO-, -COO-, -S-, -SO-, -SO<sub>2</sub>-, -O-, -NR<sup>25</sup>-, -SiR<sup>30</sup>R<sup>31</sup>-, -POR<sup>32</sup>-, -CR<sup>23</sup>=CR<sup>24</sup>-, or -C≡C-; and

E is -OR<sup>29</sup>-, -SR<sup>29</sup>-, -NR<sup>25</sup>R<sup>26</sup>-, -COR<sup>28</sup>-, -COOR<sup>27</sup>-, -CONR<sup>25</sup>R<sup>26</sup>-, -CN, -OCOOR<sup>27</sup>, or halogen;

G is E, or C<sub>1</sub>-C<sub>24</sub>alkyl, wherein

R<sup>23</sup>, R<sup>24</sup>, R<sup>25</sup> and R<sup>26</sup> are independently of each other H; C<sub>6</sub>-C<sub>18</sub>aryl; C<sub>6</sub>-C<sub>18</sub>aryl substituted by C<sub>1</sub>-C<sub>24</sub>alkyl or C<sub>1</sub>-C<sub>24</sub>alkoxy; C<sub>1</sub>-C<sub>24</sub>alkyl; or C<sub>1</sub>-C<sub>24</sub>alkyl interrupted by -O-,

or R<sup>25</sup> and R<sup>26</sup> together form a five or six membered ring;

R<sup>27</sup> and R<sup>28</sup> are independently of each other H; C<sub>6</sub>-C<sub>18</sub>aryl; C<sub>6</sub>-C<sub>18</sub>aryl substituted by C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>1</sub>-C<sub>24</sub>alkoxy; C<sub>1</sub>-C<sub>24</sub>alkyl; or C<sub>1</sub>-C<sub>24</sub>alkyl interrupted by -O-,

R<sup>29</sup> is H; C<sub>6</sub>-C<sub>18</sub>aryl; C<sub>6</sub>-C<sub>18</sub>aryl substituted by C<sub>1</sub>-C<sub>24</sub>alkyl, or C<sub>1</sub>-C<sub>24</sub>alkoxy; C<sub>1</sub>-C<sub>24</sub>alkyl; or C<sub>1</sub>-C<sub>24</sub>alkyl interrupted by -O-,

R<sup>30</sup> and R<sup>31</sup> are independently of each other C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>6</sub>-C<sub>18</sub>aryl or C<sub>6</sub>-C<sub>18</sub>aryl substituted by C<sub>1</sub>-C<sub>24</sub>alkyl, and

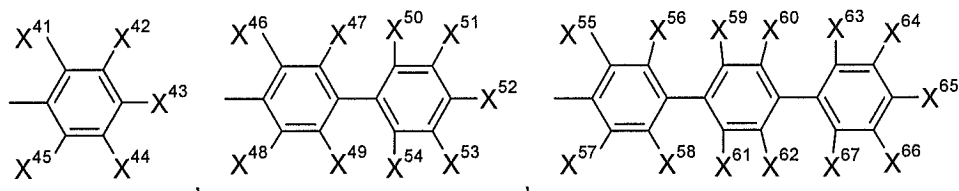
R<sup>32</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>6</sub>-C<sub>18</sub>aryl, or C<sub>6</sub>-C<sub>18</sub>aryl substituted by C<sub>1</sub>-C<sub>24</sub>alkyl.

20. **(new)** The electroluminescent device according to claim 19, wherein the electroluminescent device comprises in this order

- (a) an anode
- (b) a hole injecting layer and/or a hole transporting layer
- (c) a light-emitting layer
- (d) optionally an electron transporting layer and
- (e) a cathode.

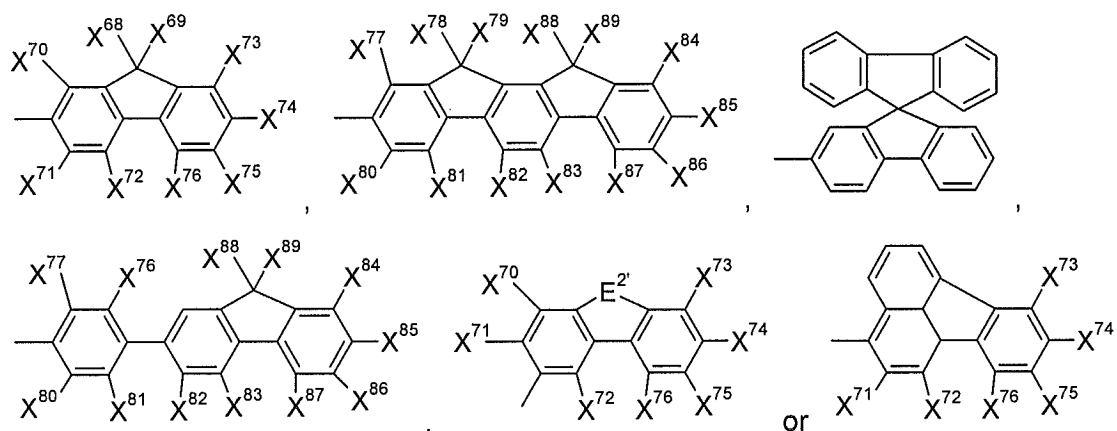
21. **(new)** The electroluminescent device according to claim 20, wherein the 2H-benzotriazole compound forms the light-emitting layer.

22. **(currently amended)** The electroluminescent device according to claim 19, wherein in the 2H-benzotriazole compound at least one of the substituents  $A^{21}$ ,  $A^{22}$ ,  $A^{23}$ ,  $A^{24}$ ,  $A^{11}$ ,  $A^{12}$ ,  $A^{13}$ ,  $A^{14}$ ,  $A^{15}$ ,  $A^{16}$ ,  $A^{17}$  and  $A^{18}$  is a group of formula



23. **(new)** The electroluminescent device according to claim 22, wherein in the 2H-benzotriazole compound at least one of the substituents  $X^{41}$ ,  $X^{42}$ ,  $X^{43}$ ,  $X^{44}$ ,  $X^{45}$ ,  $X^{46}$ ,  $X^{47}$ ,  $X^{48}$ ,  $X^{49}$ ,  $X^{50}$ ,  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{54}$ ,  $X^{55}$ ,  $X^{56}$ ,  $X^{57}$ ,  $X^{58}$ ,  $X^{59}$ ,  $X^{60}$ ,  $X^{61}$ ,  $X^{62}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$ ,  $X^{66}$  and  $X^{67}$  is fluorine,  $-NR^{25}R^{26}$ ,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl or  $C_6$ - $C_{14}$ perfluoroaryl.

24. **(new)** The electroluminescent device according to claim 19, wherein in the 2H-benzotriazole compound at least one of the substituents  $A^{21}$ ,  $A^{22}$ ,  $A^{23}$ ,  $A^{24}$ ,  $A^{11}$ ,  $A^{12}$ ,  $A^{13}$ ,  $A^{14}$ ,  $A^{15}$ ,  $A^{16}$ ,  $A^{17}$  and  $A^{18}$  is a group of formula



wherein

$X^{68}$ ,  $X^{69}$ ,  $X^{78}$ ,  $X^{79}$ ,  $X^{88}$  and  $X^{89}$  are independently of each other  $C_1$ - $C_{24}$ alkyl which can be interrupted by one or two oxygen atoms,

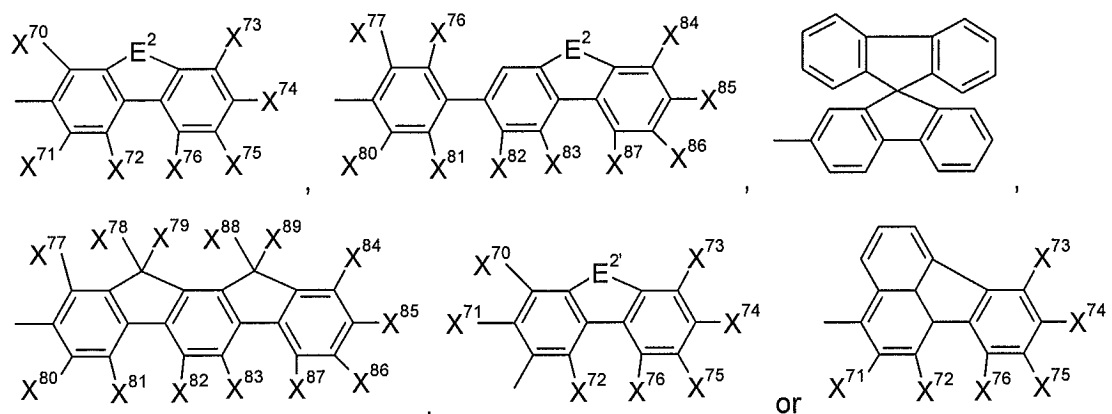
$X^{70}$ ,  $X^{71}$ ,  $X^{72}$ ,  $X^{73}$ ,  $X^{74}$ ,  $X^{75}$ ,  $X^{76}$ ,  $X^{77}$ ,  $X^{80}$ ,  $X^{81}$ ,  $X^{82}$ ,  $X^{83}$ ,  $X^{84}$ ,  $X^{85}$ ,  $X^{86}$  and  $X^{87}$  are independently of each other H, CN,  $C_1$ - $C_{24}$ alkyl,  $C_6$ - $C_{10}$ aryl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ , or  $-COOR^{27}$ , wherein

$R^{25}$  and  $R^{26}$  are independently of each other H,  $C_6-C_{18}$ aryl,  $C_7-C_{18}$ aralkyl, or  $C_1-C_{24}$ alkyl, and  $R^{27}$  is  $C_1-C_{24}$ alkyl, or

$R^{25}$  and  $R^{26}$  together form a five or six membered ring, and

$E^{2'}$  is -S-, -O- or -NR<sup>25'</sup>-, wherein  $R^{25'}$  is  $C_1-C_{24}$ alkyl, or  $C_6-C_{10}$ aryl.

25. (new) The electroluminescent device according to claim 19, wherein in the 2H-benzotriazole compound least one of the substituents  $A^{21}$ ,  $A^{22}$ ,  $A^{23}$ ,  $A^{24}$ ,  $A^{11}$ ,  $A^{12}$ ,  $A^{13}$ ,  $A^{14}$ ,  $A^{15}$ ,  $A^{16}$ ,  $A^{17}$  and  $A^{18}$  is  $C_6-C_{24}$ aryl substituted by fluorine,  $C_1-C_{24}$ alkyl,  $C_5-C_{12}$ cycloalkyl,  $C_7-C_{25}$ aralkyl,  $C_1-C_{24}$ haloalkyl; thiophenyl, pyrrolyl, furanyl, benzoxazolyl or benzothiazolyl substituted by fluorine,  $C_1-C_{24}$ alkyl,  $C_5-C_{12}$ cycloalkyl,  $C_7-C_{25}$ aralkyl or  $C_1-C_{24}$ haloalkyl, or a group of formula



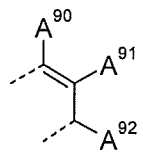
wherein  $E^2$  is  $-CR^{23}=CR^{24}-$  or  $-CX^{68}X^{69}-$ ,

$E^{2'}$  is -SiR<sup>30</sup>R<sup>31</sup>-, -POR<sup>32</sup>-, -S-, -O-, or -NR<sup>25'</sup>-, wherein  $R^{25'}$  is  $C_1-C_{24}$ alkyl, or  $C_6-C_{10}$ aryl,

$X^{68}$ ,  $X^{69}$ ,  $X^{78}$ ,  $X^{79}$ ,  $X^{88}$  and  $X^{89}$  are independently of each other  $C_1-C_{18}$  alkyl,  $C_1-C_{24}$ alkyl substituted by E and/or interrupted by D,  $C_1-C_{24}$ perfluoroalkyl,  $C_6-C_{14}$ perfluoroaryl,  $C_6-C_{24}$ aryl,  $C_6-C_{24}$ aryl substituted by G,  $C_2-C_{20}$ heteroaryl,  $C_2-C_{20}$ heteroaryl substituted by G,  $C_2-C_{24}$ alkenyl,  $C_2-C_{24}$ alkynyl,  $C_1-C_{24}$ alkoxy,  $C_1-C_{24}$ alkoxy substituted by E and/or interrupted by D, or  $C_7-C_{25}$ aralkyl, or

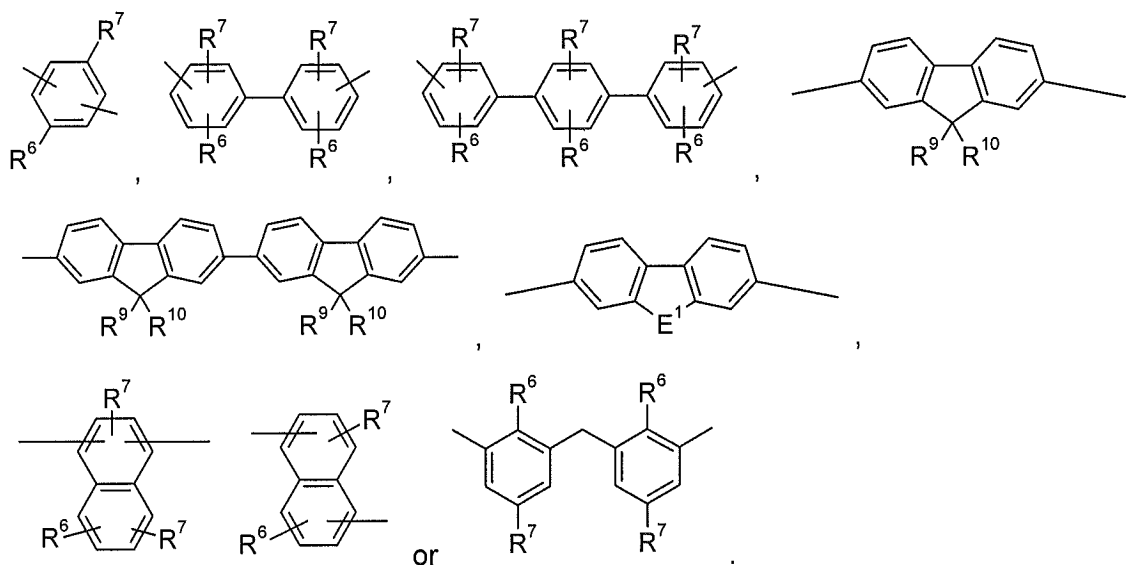
$X^{78}$  and  $X^{79}$ , and/or  $X^{88}$  and  $X^{89}$  form a ring, or

$X^{68}$  and  $X^{70}$ ,  $X^{69}$  and  $X^{73}$ ,  $X^{77}$  and  $X^{78}$  and/or  $X^{84}$  and  $X^{89}$  are a group

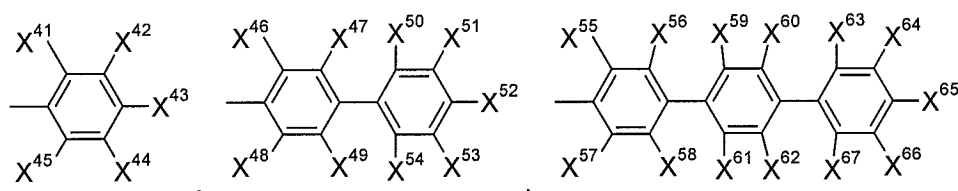
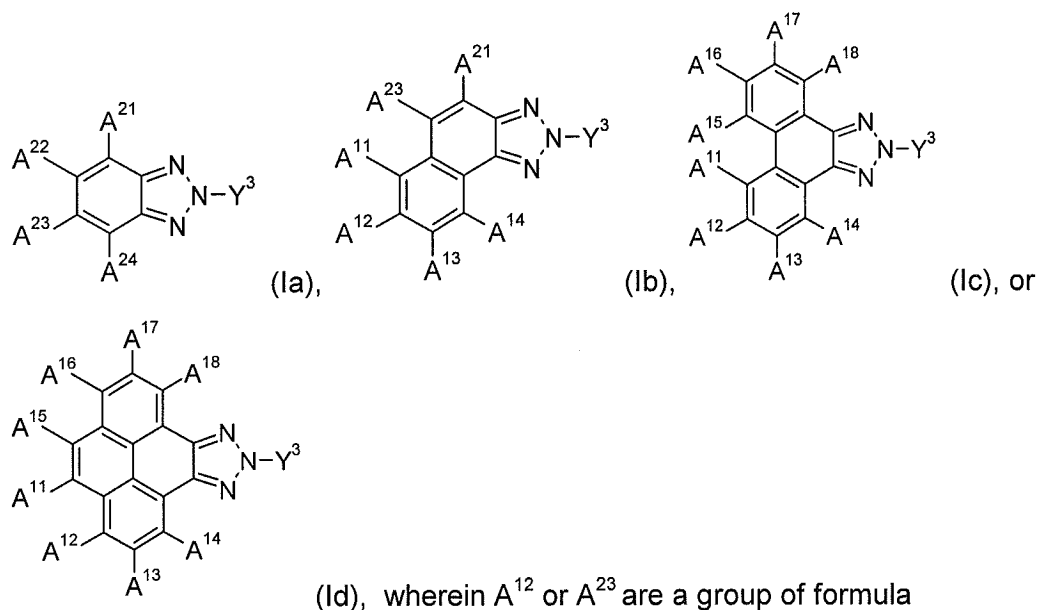




26. **(new)** The electroluminescent device according to claim 19, wherein in the 2H-benzotriazole compound  $Y^1$  is a group of formula



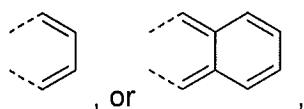
27. **(new)** The electroluminescent device according to claim 19, wherein the 2H-benzotriazole compound is a compound of formula



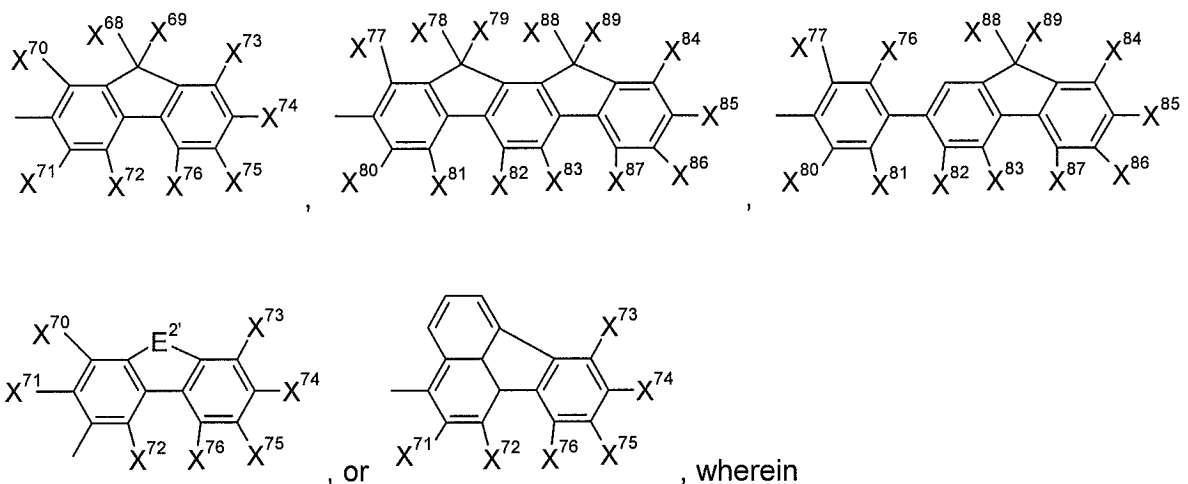
wherein  $X^{41}, X^{42}, X^{43}, X^{44}, X^{45}, X^{46}, X^{47}, X^{48}, X^{49}, X^{50}, X^{51}, X^{52}, X^{53}, X^{54}, X^{55}, X^{56}, X^{57}, X^{58}, X^{59}, X^{60}, X^{61}, X^{62}, X^{63}, X^{64}, X^{65}, X^{66}$  and  $X^{67}$  are independently of each H, CN, fluorine,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl,  $C_6$ - $C_{10}$ aryl, which can optionally be substituted by one or more  $C_1$ - $C_8$ alkyl or  $C_1$ - $C_8$ alkoxy groups;  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ , or  $-COOR^{27}$ ,

or

two groups  $X^{41}, X^{42}, X^{43}, X^{44}, X^{45}, X^{46}, X^{47}, X^{48}, X^{49}, X^{50}, X^{51}, X^{52}, X^{53}, X^{54}, X^{55}, X^{56}, X^{57}, X^{58}, X^{59}, X^{60}, X^{61}, X^{62}, X^{63}, X^{64}, X^{65}, X^{66}$  and  $X^{67}$ , which are neighbouring to each other, are a group



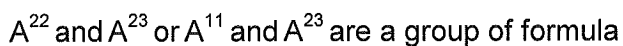
or  $A^{12}$  and  $A^{23}$  are a group of formula



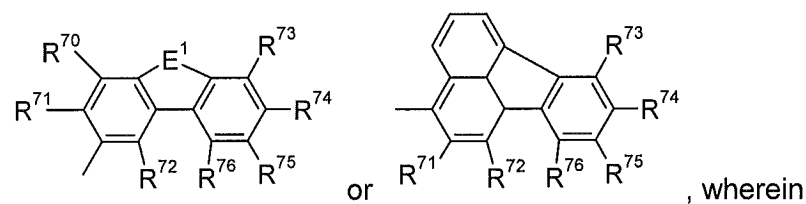
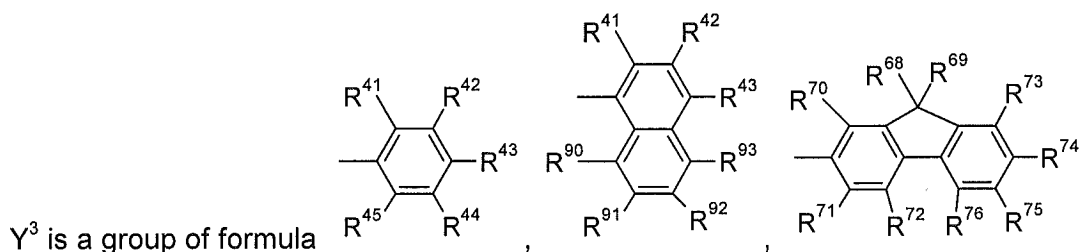
$X^{68}, X^{69}, X^{78}, X^{79}, X^{88}$  and  $X^{89}$  are independently of each other  $C_1$ - $C_{24}$ alkyl which can be interrupted by one or two oxygen atoms,

$X^{70}, X^{71}, X^{72}, X^{73}, X^{74}, X^{75}, X^{76}, X^{77}, X^{80}, X^{81}, X^{82}, X^{83}, X^{84}, X^{85}, X^{86}$  and  $X^{87}$  are independently of each other H, CN,  $C_1$ - $C_{24}$ alkyl,  $C_6$ - $C_{10}$ aryl,  $C_6$ - $C_{10}$ aryl substituted by one or more  $C_1$ - $C_8$ alkyl or  $C_1$ - $C_8$ alkoxy groups;  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ , or  $-COOR^{27}$ ,  $E^{2'}$  is  $-S-$ ,  $-O-$  or  $-NR^{25'}$ , wherein  $R^{25'}$  is  $C_1$ - $C_{24}$ alkyl, or  $C_6$ - $C_{10}$ aryl,

$A^{21}, A^{22}$  and  $A^{24}$  are independently of each other hydrogen, halogen,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_6$ - $C_{18}$ aryl,  $C_6$ - $C_{18}$ aryl, substituted by one or more  $C_1$ - $C_8$ alkyl or  $C_1$ - $C_8$ alkoxy groups;  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ , or  $-COOR^{27}$ , or  $C_2$ - $C_{10}$ heteroaryl or

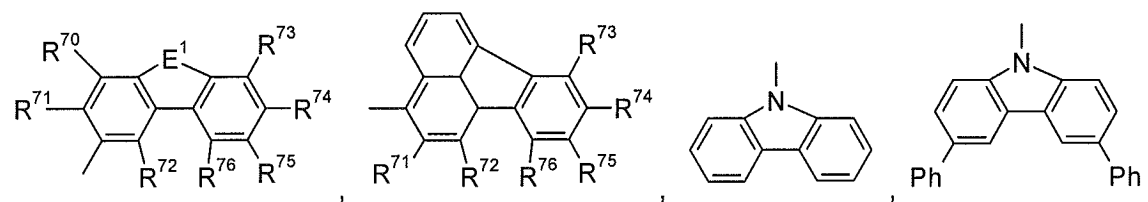
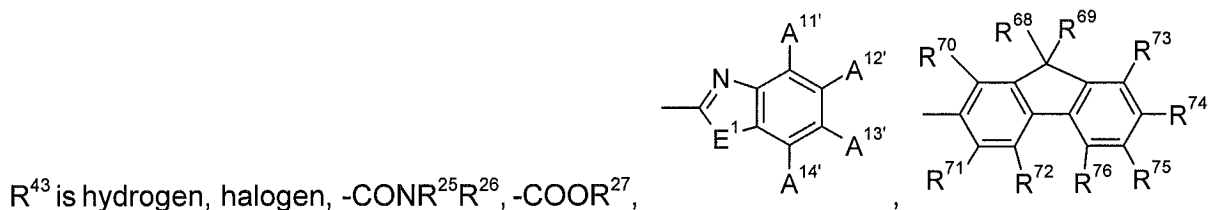


A<sup>11</sup>, A<sup>13</sup>, A<sup>14</sup>, A<sup>15</sup>, A<sup>16</sup>, A<sup>17</sup>, and A<sup>18</sup> are independently of each other H, CN, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>5</sub>-C<sub>12</sub>cycloalkyl, C<sub>7</sub>-C<sub>25</sub>aralkyl, C<sub>1</sub>-C<sub>24</sub>perfluoroalkyl, C<sub>6</sub>-C<sub>14</sub>perfluoroaryl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkylthio, C<sub>6</sub>-C<sub>18</sub>aryl, -NR<sup>25</sup>R<sup>26</sup>, -CONR<sup>25</sup>R<sup>26</sup>, or -COOR<sup>27</sup>, or C<sub>2</sub>-C<sub>10</sub>heteroaryl, wherein R<sup>25</sup> and R<sup>26</sup> are independently of each other H, C<sub>6</sub>-C<sub>18</sub>aryl, C<sub>7</sub>-C<sub>18</sub>aralkyl, or C<sub>1</sub>-C<sub>24</sub>alkyl, R<sup>27</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl, and



R<sup>41</sup> is hydrogen, C<sub>1</sub>-C<sub>24</sub>alkoxy or -OC<sub>7</sub>-C<sub>18</sub>aralkyl,

R<sup>42</sup> is hydrogen or C<sub>1</sub>-C<sub>24</sub>alkyl,

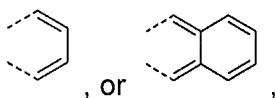


A<sup>11'</sup>, A<sup>12'</sup>, A<sup>13'</sup>, and A<sup>14'</sup> are independently of each other H, CN, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkylthio, -NR<sup>25</sup>R<sup>26</sup>, -CONR<sup>25</sup>R<sup>26</sup>, or -COOR<sup>27</sup>,

E<sup>1</sup> is -S-, -O- or -NR<sup>25'</sup>-, wherein R<sup>25'</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl or C<sub>6</sub>-C<sub>10</sub>aryl,

R<sup>110</sup> is H, CN, C<sub>1</sub>-C<sub>24</sub>alkyl, C<sub>1</sub>-C<sub>24</sub>alkoxy, C<sub>1</sub>-C<sub>24</sub>alkylthio, -NR<sup>25</sup>R<sup>26</sup>, -CONR<sup>25</sup>R<sup>26</sup>, or -COOR<sup>27</sup>, or

$R^{42}$  and  $R^{43}$  are a group of formula



$R^{44}$  is hydrogen, or  $C_1$ - $C_{24}$ alkyl,

$R^{45}$  is hydrogen, or  $C_1$ - $C_{24}$ alkyl,

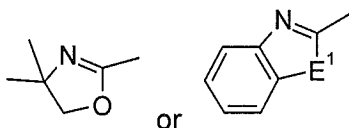
$R^{68}$  and  $R^{69}$  are independently of each other  $C_1$ - $C_{24}$ alkyl which can be interrupted by one or two oxygen atoms,

$R^{70}$ ,  $R^{71}$ ,  $R^{72}$ ,  $R^{73}$ ,  $R^{74}$ ,  $R^{75}$ ,  $R^{76}$ ,  $R^{90}$ ,  $R^{91}$ ,  $R^{92}$ , and  $R^{93}$  are independently of each other H, CN,  $C_1$ - $C_{24}$ alkyl,  $C_6$ - $C_{10}$ aryl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ , or  $-COOR^{27}$ ,

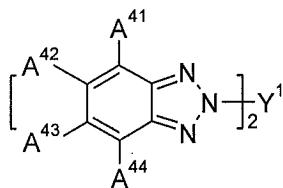
$R^{25}$  and  $R^{26}$  are independently of each other H,  $C_6$ - $C_{18}$ aryl,  $C_7$ - $C_{18}$ aralkyl, or  $C_1$ - $C_{24}$ alkyl, and  $R^{27}$  is  $C_1$ - $C_{24}$ alkyl.

28. (new) A 2H-benzotriazole compound to claim 27, wherein at least one of the substituents  $X^{41}$ ,  $X^{42}$ ,  $X^{43}$ ,  $X^{44}$ ,  $X^{45}$ ,  $X^{46}$ ,  $X^{47}$ ,  $X^{48}$ ,  $X^{49}$ ,  $X^{50}$ ,  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{54}$ ,  $X^{55}$ ,  $X^{56}$ ,  $X^{57}$ ,  $X^{58}$ ,  $X^{59}$ ,  $X^{60}$ ,  $X^{61}$ ,  $X^{62}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$ ,  $X^{66}$  and  $X^{67}$  is fluorine,  $-NR^{25}R^{26}$ ,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl or  $C_6$ - $C_{14}$ perfluoroaryl, and when  $A^{21}$ ,  $A^{22}$  or  $A^{24}$  is  $C_2$ - $C_{10}$ heteroaryl, said  $C_2$ -

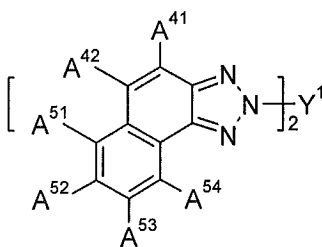
$C_{10}$ heteroaryl is a group of formula



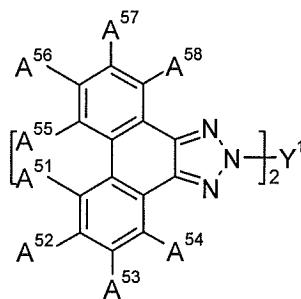
29. (new) The electroluminescent device according to claim 19, wherein the 2H-benzotriazole compound is a compound of formula



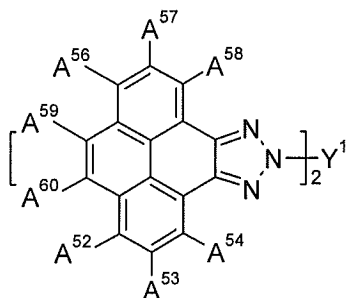
(IIa),



(IIb),





(IIc), or



(IIId),

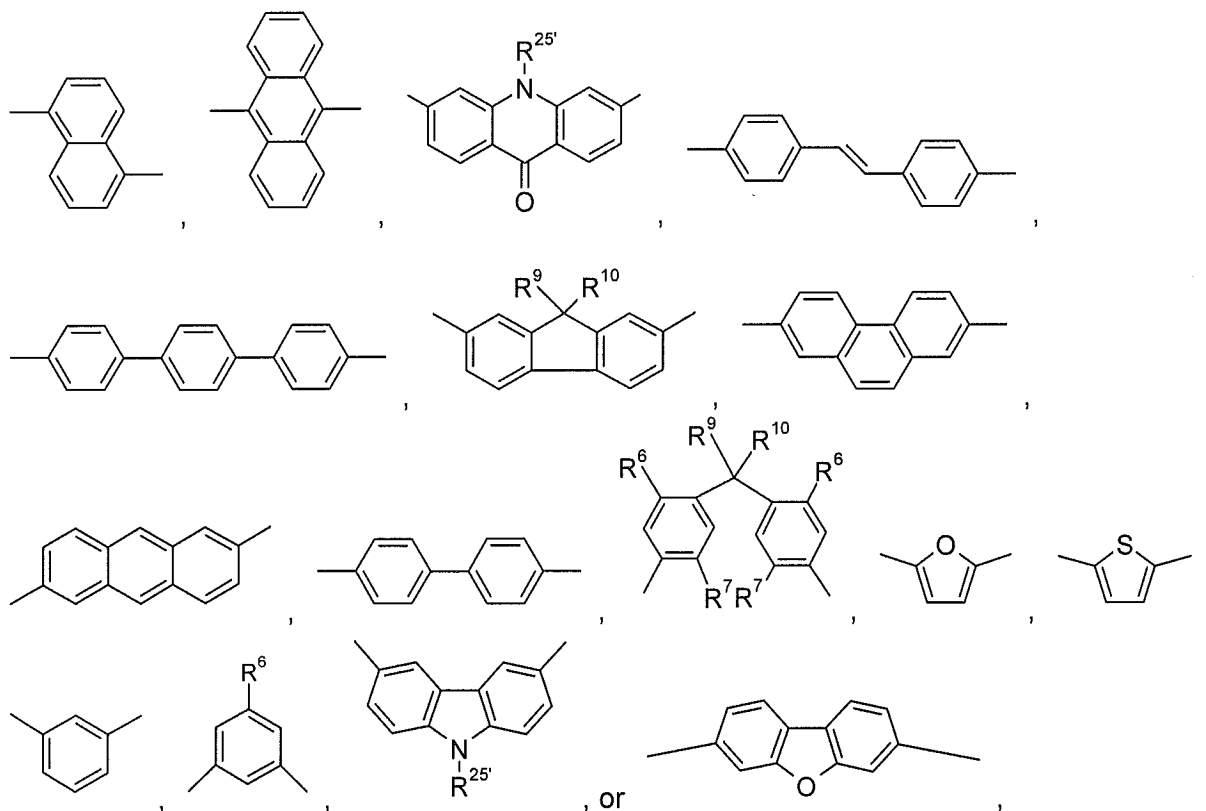
wherein

or

 , or 

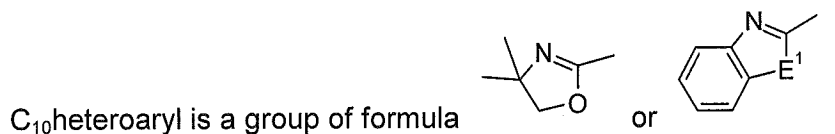
$E^{2'}$  is -S-, -O-, or -NR<sup>25'</sup>-,

$A^{41}$ ,  $A^{42}$  and  $A^{44}$  are independently of each other hydrogen, halogen,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_6$ - $C_{18}$ aryl,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ ,  $-COOR^{27}$ , or  $C_2$ - $C_{10}$ heteroaryl, or  
 $A^{51}$ ,  $A^{53}$ ,  $A^{54}$ ,  $A^{55}$ ,  $A^{56}$ ,  $A^{57}$ ,  $A^{58}$ ,  $A^{59}$  and  $A^{60}$  are independently of each other H, fluorine, CN,  $C_1$ - $C_{24}$ alkyl,  $C_1$ - $C_{24}$ alkoxy,  $C_1$ - $C_{24}$ alkylthio,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl,  $C_6$ - $C_{18}$ aryl,  $-NR^{25}R^{26}$ ,  $-CONR^{25}R^{26}$ ,  $-COOR^{27}$  or  $C_2$ - $C_{10}$ heteroaryl,  
 wherein  
 $R^{25}$  and  $R^{26}$  are independently of each other H,  $C_6$ - $C_{18}$ aryl,  $C_7$ - $C_{18}$ aralkyl, or  $C_1$ - $C_{24}$ alkyl, or  $R^{25}$  and  $R^{26}$  together form a five or six membered ring,  
 $R^{27}$  is  $C_1$ - $C_{24}$ alkyl, and  
 $Y^1$  is a group of formula

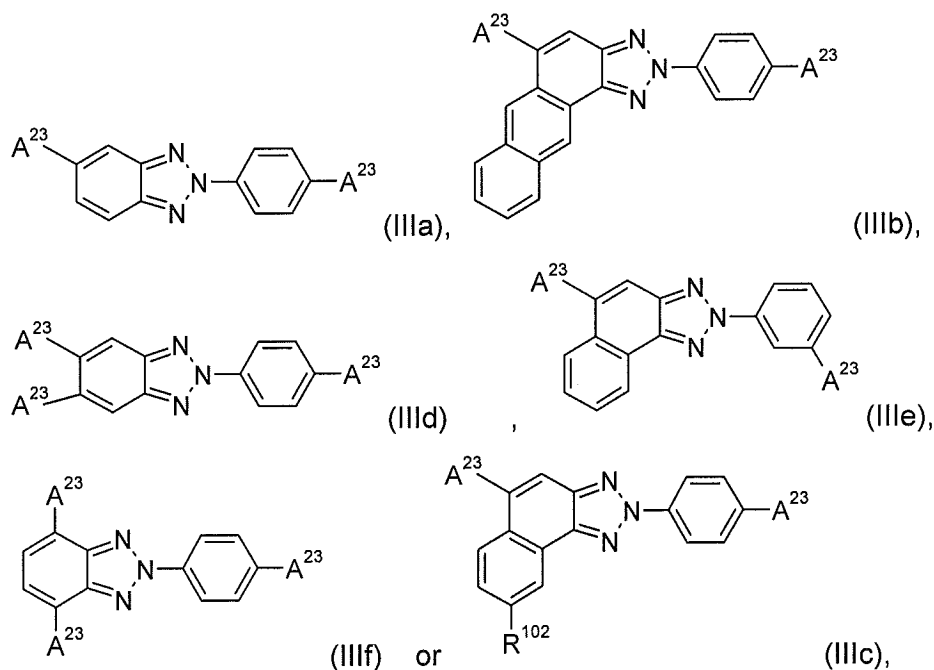


wherein  
 $R^6$  is  $C_1$ - $C_{24}$ alkoxy or  $-O$ - $C_7$ - $C_{25}$ aralkyl,  $R^7$  is H, or  $C_1$ - $C_{24}$ alkyl,  $R^9$  and  $R^{10}$  are independently of each other  $C_1$ - $C_{24}$ alkyl which can be interrupted by one or two oxygen atoms, and  
 $R^{25'}$  is  $C_1$ - $C_{24}$ alkyl or  $C_6$ - $C_{10}$ aryl.

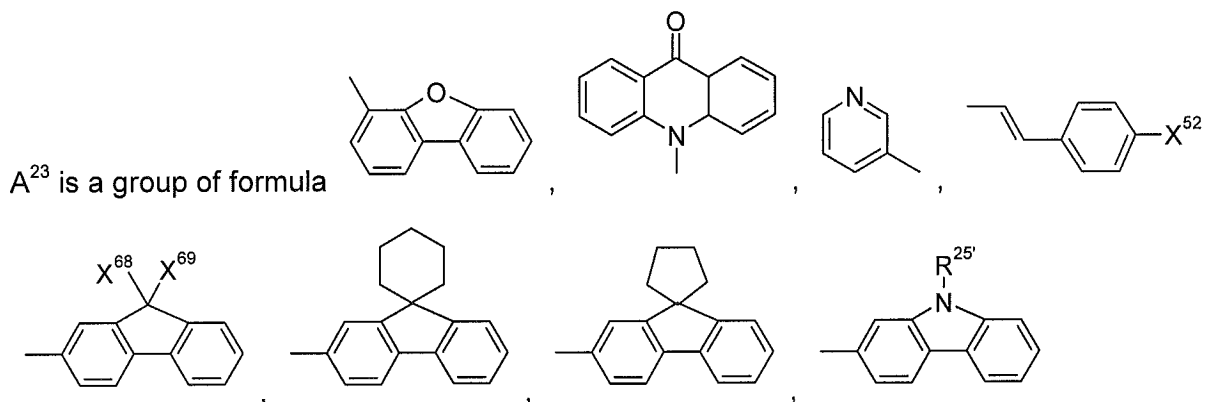
30. **(new)** A 2H-benzotriazole compound to claim 29, wherein at least one of the substituents  $X^{41}$ ,  $X^{42}$ ,  $X^{43}$ ,  $X^{44}$ ,  $X^{45}$ ,  $X^{46}$ ,  $X^{47}$ ,  $X^{48}$ ,  $X^{49}$ ,  $X^{50}$ ,  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{54}$ ,  $X^{55}$ ,  $X^{56}$ ,  $X^{57}$ ,  $X^{58}$ ,  $X^{59}$ ,  $X^{60}$ ,  $X^{61}$ ,  $X^{62}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$ ,  $X^{66}$  and  $X^{67}$  is fluorine,  $-NR^{25}R^{26}$ ,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_7$ - $C_{25}$ aralkyl,  $C_1$ - $C_{24}$ perfluoroalkyl or  $C_6$ - $C_{14}$ perfluoroaryl, and when  $A^{21}$ ,  $A^{22}$  or  $A^{24}$  is  $C_2$ - $C_{10}$ heteroaryl, said  $C_2$ -

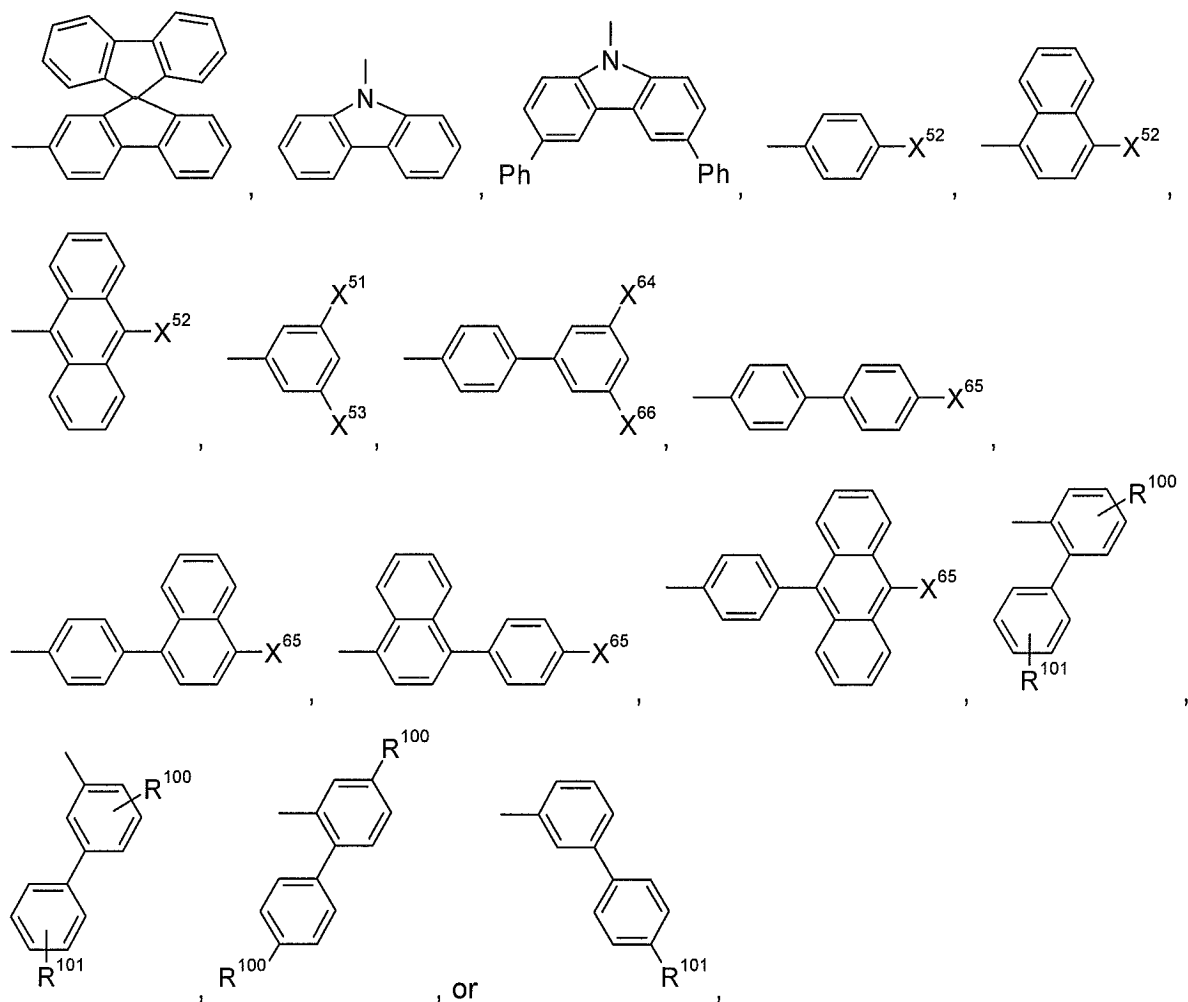


31. **(new)** The electroluminescent device according to claim 19, wherein the 2H-benzotriazole is a compound of formula

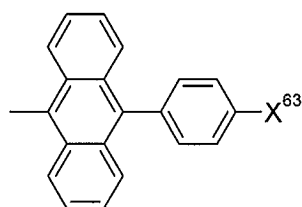


wherein  $R^{102}$  is  $C_1$ - $C_{24}$ alkyl or H,





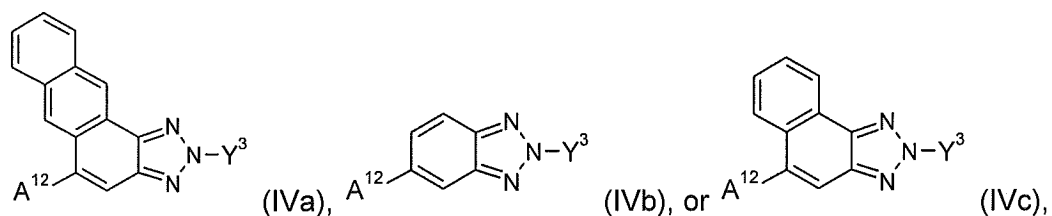
wherein  $R^{100}$  and  $R^{101}$  are independently of each other H,  $C_1$ - $C_{24}$ alkyl, or

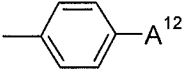


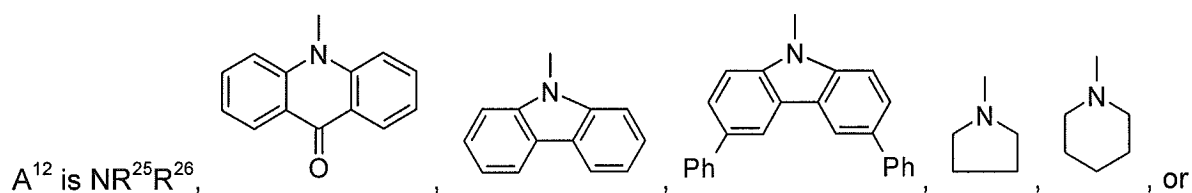
, wherein  $X^{51}$ ,  $X^{52}$ ,  $X^{53}$ ,  $X^{63}$ ,  $X^{64}$ ,  $X^{65}$  and  $X^{66}$  are independently of each other fluorine,  $C_1$ - $C_{24}$ alkyl,  $C_5$ - $C_{12}$ cycloalkyl,  $C_5$ - $C_{12}$ cycloalkyl substituted by one or two  $C_1$ - $C_8$ alkyl groups, 1-adamantyl,  $C_1$ - $C_{24}$ perfluoroalkyl,  $C_6$ - $C_{14}$ perfluoroaryl,  $NR^{25}R^{26}$ , wherein  $R^{25}$  and  $R^{26}$  are  $C_6$ - $C_{14}$ aryl which can be substituted by one or two  $C_1$ - $C_{24}$ alkyl groups, or  $R^{25}$  and  $R^{26}$  together form a five or six membered heterocyclic ring.

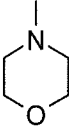
32. **(new)** The electroluminescent device according to claim 19, wherein the 2H-benzotriazole is a compound of formula





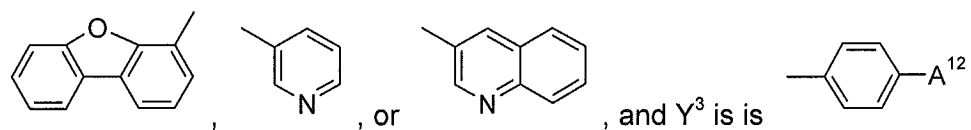
wherein Y<sup>3</sup> is , and



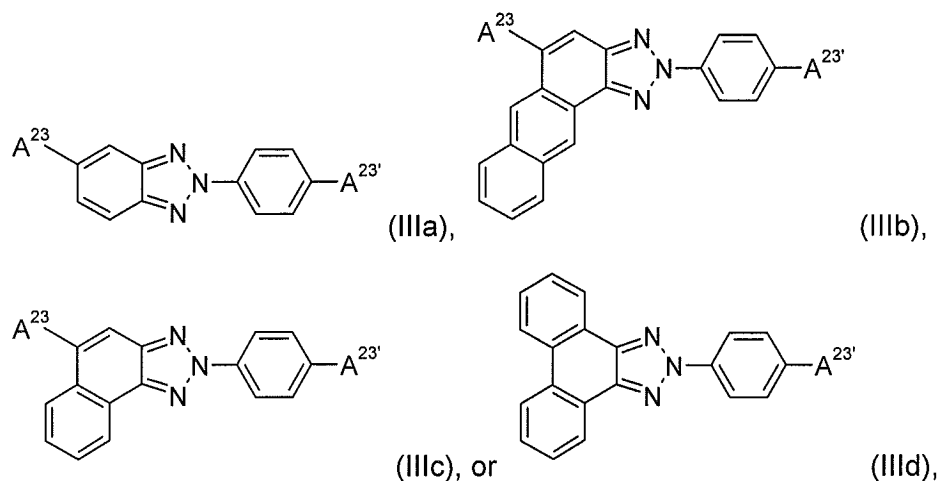
,
 wherein R<sup>25</sup> and R<sup>26</sup> are C<sub>6</sub>-C<sub>14</sub>aryl which can optionally be substituted by one or two C<sub>1</sub>-C<sub>8</sub>alkyl groups or C<sub>1</sub>-C<sub>8</sub>alkoxy groups,

or

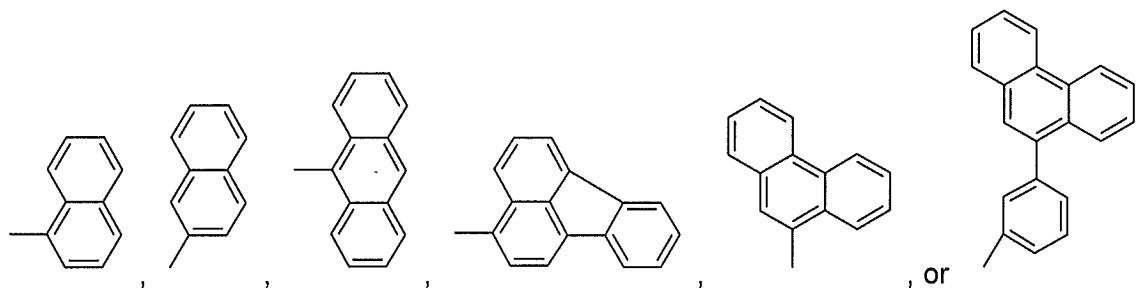
a compound of formula IVa, IVb, or IVc, wherein A<sup>12</sup> is

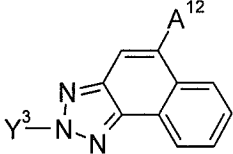


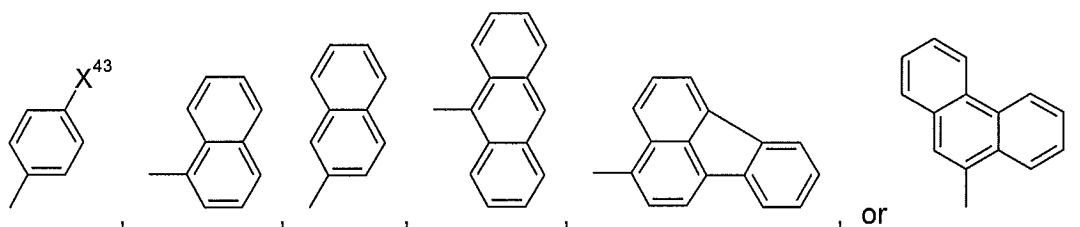
or a compound of formula



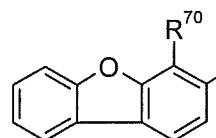
wherein  $A^{23}$  and  $A^{23'}$  are independently of each other a group of formula



or a compound of formula , wherein  $A^{12}$  is H, a group of formula

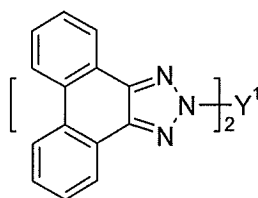


wherein  $X^{43}$  is  $C_1$ - $C_{24}$ alkyl and  $Y^3$  is a group of formula  $C_{24}$ alkyl.

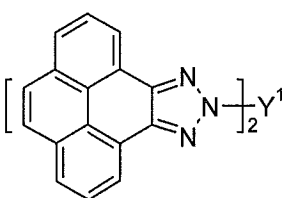


, wherein  $R^{70}$  is  $C_1$ - $C_{24}$ alkyl.

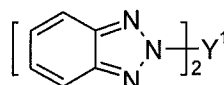
33. **(new)** The electroluminescent device according to claim 31, wherein the 2H-benzotriazole is a compound of formula



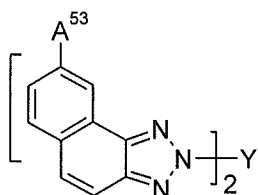
(IIc),



(IIId),

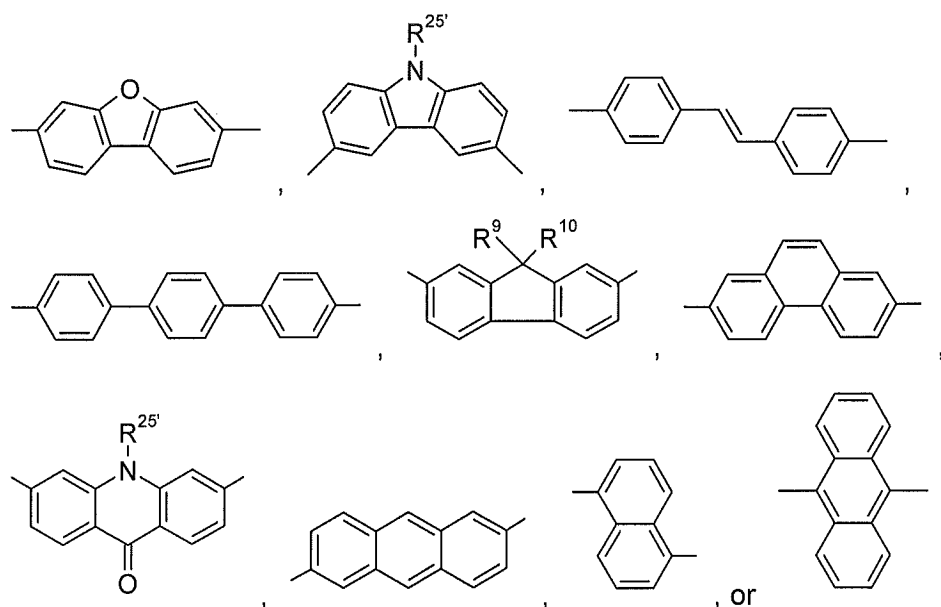


(IIa), or



(IIb), wherein  $A^{53}$  is  $C_1$ - $C_{24}$ alkyl, or H,

Y<sup>1</sup> is a group of formula



wherein R<sup>9</sup> and R<sup>10</sup> are independently of each other C<sub>1</sub>-C<sub>24</sub>alkyl which can be interrupted by one or two oxygen atoms, and R<sup>25'</sup> is C<sub>1</sub>-C<sub>24</sub>alkyl.